# CLASS - V Term - II (2022-23)

# **Mathematics**

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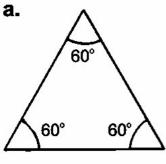
# Ch. 9 Triangles

Date \_\_\_\_\_

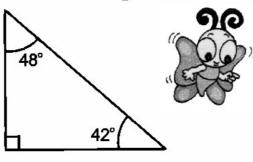
#### Fill in the blanks :-

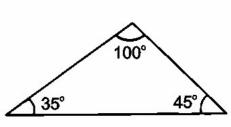
1. 111 11	ii the Dianks					
i)	A polygon is a sin	mple closed figure	formed by	or more than		
		line segments.				
ii)	The minimum num	bers of sides of a pol	ygon is	_		
	Examples:-					
iii)	Name of polygon	No of sides	Name of Polygon	No. of Sides		
	Triangle		Heptagon / Septagon			
	-	4	·	8		
	Pentagon		Nonagon			
		6	·	10		
iv)	Symbol for triangl	e is		I		
v)	A triangle is a	with	sides.			
vi)	It has	angles and	vertices.			
vii)	The sum of 3 angles	s of a triangle is =	<u>_</u>			
viii)	An equilateral ∆ha	s all sides	·			
ix)	In an equilatual Δ, a	alle	are also equal ie. 60°			
x)	If we join 3 points we get a triangle.					
xi)	points A	A,B and C lie on the s	ame line and are called	points.		
xii)	The sum of any two	sides of a $\Delta$ is alway	78than the 1	third side.		
xiii)	In an isosceles trian	igle, the angles oppo	site to equal sides are also_			
xiv)	In a scalene ▲, all a	angles are				

Identify the triangles on the bases of angles.

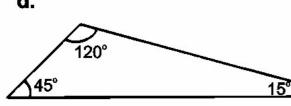


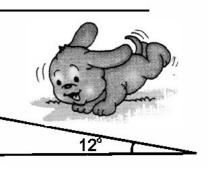
b.





d.





Fill in the blanks.

In ▲ ABC, AB = 7 cm, BC = 8 cm and CA = 8 cm. It is a/an \_\_\_\_\_ triangle . a)

In  $\triangle$  DEF, if DE = EF = FD = 7cm, it is a/an triangle. b)

A triangle with all sides different is called a/an \_\_\_\_\_ triangle. c)

If a triangle has angles 65° and 43° then the third angle is ... d)

In a right ▲, the other two angles are always \_\_\_\_\_. e)

A cute triangle has all its angles smaller than \_\_\_\_\_. f)

Find the third angle of Triangles

 $40^{\circ}+50^{\circ}+$  =  $180^{\circ}$ 1.

2.

 $45^{\circ}+45^{\circ}+$  =  $180^{\circ}$ 3.

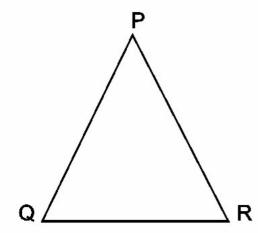
 $100^{\circ} + 40^{\circ} +$  =  $180^{\circ}$ 4.

 $65^{\circ}+25^{\circ}+$  =  $180^{\circ}$ 5.

## Ch. 9 Triangles

Note:- Sum of three angles of a  $\triangle =$  \_\_\_\_\_

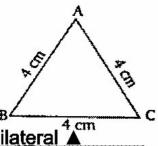
1. Observe the figure and Name the following:



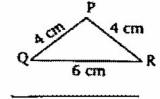
- 1) All 4 sides of a \_\_\_\_\_ are equal.
- 2) The opposite sides of a \_\_\_\_\_ are equal.
- 3) A polygon that has 8 sides is called \_\_\_\_\_.
- 4) A polygon can have minimum \_\_\_\_\_ sides.
- 5) In a rectangle, the equal sides are \_\_\_\_\_ to each other.
- 6) We can draw \_\_\_\_\_ triangle from 3 non-collinear points.

3. Classify the given triangles according to the lengths of their sides.

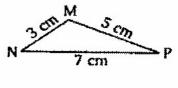
(a)



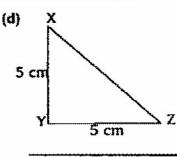
(b)



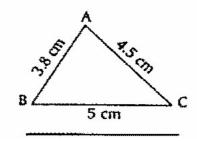
te



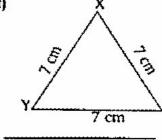
eg. equilateral



(e)



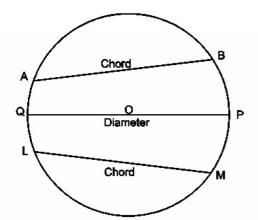
**(f)** 



i)	A circle is ashape like the square, triangle or rectangle.	
ii)	A circle is a figure with a curved boundary called the	
iii)	A circle has only oneside.	
iv)	A circle has no vertex or	
	Centre, Radius and Diameter	
a)	Centre: The of a circle is a point from where all points on the	1e
	circle lie at an equal distance.	
b)	Radius: The fixed distance from centre to any point on the boundary	is
	called the	
	Note: 1) There can be any number of radii in a	
	2) Plural of radius is	
c)	Diameter - A line segment that starts form one point on the circle, god	∋s
	through the centre and ends at another point on the circle is called the	ne
	Note: 1) There arenumber of diameter for a circle but all of the	m
	must pass through	
	2) D=2xr (diameter is double of radius)	
	3) r=D÷2 (Radius is half of diameter)	
d)	Chord: It is asegment with its end points lying on the circle.	
e)	A may or may not pass through the centre of the circle.	
f)	We can draw infinite number of radius but is one only.	
g)	Half of a circle is called	
h)	Quarter of a circle is called	
i)	Two or more circle with the same centre but different radii are calle	∍d
j)	A circle can have many diameters, but only centre.	

#### Ch. 10 Circles

1. Here QP =\_\_\_\_\_



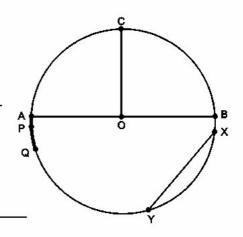
- 2. The line segment drawn through the centre that joins two points on a circle is called \_\_\_\_\_
- 3. Diameter = 2 x
- 4. Radius = ÷2
- 5. A line segment that joins any two points on a circle

is called \_\_\_\_\_ and \_\_\_\_ are chords.

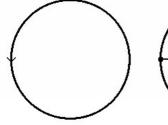
- 6. QP is \_\_\_\_\_ chord and \_\_\_\_\_ also.
- 7. The length of circular boundary is called \_\_\_\_\_ or perimeter.
- 8. The shorter arc is called \_\_\_\_\_ arc.
- 9. The longer arc is called \_\_\_\_\_ arc.
- 10. The diameter divides the circle into two halves called .

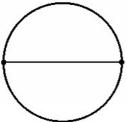
Observe:-

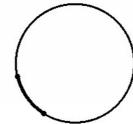
- 1 In the adjoining figure:
  - a. Name the centre of the circle.
  - b. Name an arc of the circle.
  - c. Name the diameter of the circle.
  - d. Name a chord.
  - e. Name the three radii.
  - f. Name the largest chord of this circle.

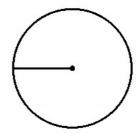


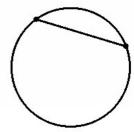
2. Name the highlighted part of the circle.











- a. Circumference b.
- C. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_

## Ch. 11 Metric Measure

#### LENGTH

Kilometer	Hectometre	Decametre	Metre	Decimetre	Centimetre	Millimetre
Km	hm	dam	m	dm	cm .	mm
1000m	100m	10m	1m	1 m	1 m 100	1 m

#### WEIGHT

Kilogram	Hectogram	Decagram	Gram	Decigram	Centigram	Milligram
Kg	hg	dag	g	dg	cg	mg
1000g	100g	10g	1g	1 g	1 g	1 g 1000

#### CAPACITY

Kilolitre	Hectolitre	Decalitre	Litre	Decilitre	Centilitre	Millilitre
κ¢	hé	dat	l	₫ℓ	cl	m l
1000€	100€	106	16	<u>1</u> ℓ	100	1000

#### Fill in the blanks

I.	The standard unit of length is
ii.	The bigger units of length are, hectometer (hm) and decametre (dam).
iii.	The smaller units of length are decimeter (dm), and millimeter (mm).
iv.	The standard unit of weight is
V.	We measure heavy things like wheat, rice in
vi.	To measure the weight of light objects we use the unit of dg,and mg.
vii.	The standard unit of capacity is
viii.	To convert higher unit into lower unit we
ix.	To convert lower unit into higher unit we
x.	For addition and subtraction we convert the given units into bigger unit and do the given
	operation as we do in case of
xi.	Litres and kilolitre are the units used for measuring

#### Ch. 11 Metric Measures

Date \_\_\_\_\_

#### Q1 Fill in the blanks

a)  $4 \text{ kg } 652 \text{ g} = \underline{\hspace{1cm}} \text{g}$ 

b)  $5 \text{ kg } 30 \text{ g} = \underline{g}$ 

c) 6821 g = \_\_\_\_\_\_ kg \_\_\_\_\_ g

d) 9899 mg = \_\_\_\_\_ g \_\_\_\_ mg

e) 3002 mg = \_\_\_\_\_ g \_\_\_\_ mg

f)  $6 \text{ g } 215 \text{ mg} = \underline{\hspace{1cm}} \text{mg}$ 

g)  $11 \text{ g 4 mg} = \underline{\hspace{1cm}} \text{mg}$ 

i) 6075 ml = \_\_\_\_\_ L \_\_\_ ml

j)  $2 \text{ cl } 120 \text{ ml} = ____ \text{ml}$ 

k) 8338 ml = \_\_\_\_\_ I \_\_\_\_ ml

1)  $6 \text{ kl } 5 \text{ L} = \underline{\hspace{1cm}} \text{I}$ 

 $\mathbf{m)} \quad 1 \mathbf{k} 1 \ 289 \ 1 = \underline{\hspace{1cm}} 1$ 

n) 2029 1 = \_\_\_\_\_ ml

o) 8982 g = \_\_\_\_\_ kg \_\_\_\_ g

## Q. 2 Fill in the blanks

i)  $1 \text{ m} = \underline{\qquad} \text{cm}$ 

ii) 1cm = \_\_\_\_mm

iii) 1 m = mm

iv) 11 = ml

v) 1 kl = 1

vi) 1kg = \_\_\_\_g

vii) 1g = \_\_\_\_mg

viii) your weight = 35

ix)  $7965 = ____kl___L$ 

 $x) 5 km 218 m = ____m$ 

#### Ch. 14 Time

#### Complete the following

1. 1 day = \_\_\_\_\_ hours.

2. 1 hour = \_\_\_\_\_ minutes.

3. 1 minute = \_\_\_\_\_ seconds.

4. 1 year = \_\_\_\_\_ days.

5. 1 leap year = \_\_\_\_\_ days.

6. 1 week = \_\_\_\_\_ days.

7. 1 year = \_\_\_\_\_ months.

8. 1 year = \_\_\_\_\_ weeks.

9. 1 fortnight = \_\_\_\_\_ days.

10. Feb. in leap year = \_\_\_\_\_ days.

11. In addition and subtraction of time (as 1 hour = 60 minutes) we need to carry over or borrow \_\_\_\_\_ minutes.

## Match the following

a) Golden Jubilee 10 years

b) Silver Jubilee After 50 years

c) Decade 366 days

d) Century After 25 years

e) Millennium 100 years

f) Leap Year 1000 years

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# Ch. 14 Time

Date \_\_\_\_\_

## 24 Hour clock time

i)	Time in 24 hour clock is written in digits.
ii)	First two digits on the left are for and next two are for
iii)	After 12 noon we 12 hours to get 24 hour clock time.
iv)	A is written to the extreme left if the hour is in single digit.
v)	24 hour clock is used at and
vi)	Gap between any two events is called
vii)	The hour hand takes hours to complete one full round.
viii)	Most of the clocks have 3 hands hand moves the fastest.
ix)	The second hand makes one full round in minute.
x)	To know exactly how much time is passed we need to calculate time by reading a
	or
xi)	We can feel and observe passing through events.
xii)	Time is very precious and never comes again so never time.
xiii)	12 o'clock at night is called
xiv)	12 o'clock at morning is called
xv)	We do not use a.m. or p.m. with 12:00 noon or 12

# Ch. 14 Time

_		
Date		

12 Hour clo	ock Time			24 Hour clock Time
1)	4:00 p.m.			
2)	2:00 a.m.			
3)	10:30 p.m.			
4)	8:00 a.m.			_
5)	12 mid night			
6)	9:30 a.m.		,———	
7)	12:00 noon			
8)			06:30	Hours.
9)			14:25	Hours
10)			19:10	Hours
11)			20:30	Hours
12)			12:40	Hours
13)			00:15	Hours
	time using a.	500 (Principal)   1		
		- 15 p.m is		
		1:50 p.m is _		
d) 5	hours after 8	:30 a.m is		

## Ch. 14 Time

#### Q1. Fill in the blanks

i) 24 hour clocks are called \_\_\_\_\_ Clocks.

ii) After 12 noon when hour hand goes to 1 it is represented as \_\_\_\_\_\_ p.m. in

12-hour clock and \_\_\_\_\_ hours in 24 hour clock.

iii) In 24 hour clock the time is counted from 0 to \_\_\_\_\_

iv) There is no a.m. or p.m. in \_\_\_\_\_hour clock.

v) At railway stations the digital screens show the time table of \_\_\_\_\_ and

departure time of the trains.

vi) 7 months have \_\_\_\_\_ days each and 4 months have \_\_\_\_\_ days

each.

## Q2. Convert the given time

a) 3 hours = \_\_\_\_\_ minutes

b) 20 hours = \_\_\_\_\_ minutes

c) 120 minutes = \_\_\_\_hours

d) 10 minutes = \_\_\_\_seconds

e) 180 seconds = \_\_\_\_\_ minutes

f) 120 seconds = \_\_\_\_ minutes

g) 16 minutes = \_\_\_\_seconds

h) 35 days = \_\_\_\_\_ weeks

i) 1200 seconds = \_\_\_\_\_minutes

72 hours = \_\_\_\_\_ days

**j**)

## Ch. 15 Money **Profit and Loss**

Date		
Daw		

## 1) Complete the following

- The money paid to buy any thing is called its \_\_\_\_\_\_ Price.
- The Money Received by selling any thing is called its \_\_\_\_\_\_ Price. 2.
- The Extra Amount of money over the cost price is called \_\_\_\_\_\_ or gain. 3.
- When anything is sold at lower price means less than cost price then we have to bear 4.

= S.P (Selling Price) - C.P. (Cost Price) 5. Profit

= C.P. (Cost Price) - S.P. (Selling Price) Loss

#### 2) Fill in the blanks:

When S.P. > C.P., there is a \_\_\_\_\_ i)

C.P. > S.P. there is a \_\_\_\_\_

S.P. = C.P. there is neither \_\_\_\_\_\_ nor \_\_\_\_

## 3. Tick $(\checkmark)$ the correct answer :

- i) If C.P. > S.P. we get
- a) Loss
- b) Profit
- c) Interest
- d) Amount

- ii) If SP = ₹ 640, Loss = ₹ 20, then C.P. =
- a) ₹670
- b) ₹620 c) ₹660
- d) ₹650

- iii) Overhead expenses are added to
- a) profit
- b) loss
- c) S.P.

- d) C.P.
- iv) If C.P. =  $\stackrel{?}{\sim}$  81, overhead =  $\stackrel{?}{\sim}$  9, S.P. =  $\stackrel{?}{\sim}$  100 then profit is
- a) ₹28
- b) ₹10
- c) ₹11

d) ₹19

## Ch. 16 Patterns

#### 1. Complete the following blanks.

a) Patterns are part of our daily life and are very \_\_\_\_\_ in mathematics.

b) \_\_\_\_\_ are very helpful for forming borders and designs.

c) \_\_\_\_\_ help us for faster calculations.

d) Numbers form interesting \_\_\_\_\_

e \_\_\_\_\_ can be floral or geometrical.

2. i)



#### Complete this number pattern.

1 x 1 = 1

11 x 11 = 121

111 x 111 = 12321

1111 x 1111 = 1234321

11111 x 11111 = .....

111111 x 111111 = .....

1111111 x 1111111 = .....

## Ch. 17

## Perimeter, Area and Volume

1	Dill in that	AM ZO .
1.	Fill in the b	naiiks :-

i)	Peri Means	
----	------------	--

$$xi) 1 cm = \underline{\qquad} mm$$

$$\therefore 1 \text{ cm}^2 = \underline{\qquad} \text{mm}^2$$

$$xii) 1 m = \underline{\qquad} dm$$

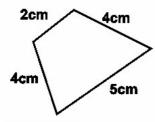
$$\therefore 1 \text{ m}^2 = \underline{\qquad} \text{dm}^2$$

xiii) 
$$1 \text{ m} = \underline{\qquad} \text{ cm}$$

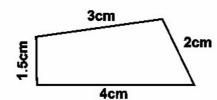
$$\therefore 1 \text{m}^2 = \underline{\qquad} \text{cm}^2$$

xviii) Area is the measurement of _	dimensions and volume is the
measurement of	dimensions.

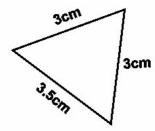
#### 1. Find the perimeter of the following:



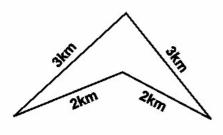
Perimeter =



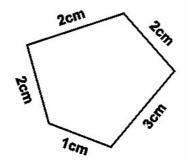
Perimeter =



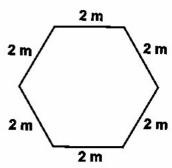
Perimeter =



Perimeter =

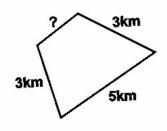


Perimeter =

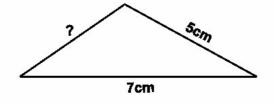


Perimeter =

#### 2. Find the perimeter of the following:



Perimeter = 13 km Side



Perimeter = 16 km Side

#### 3. Fill in the blanks:-

- a) The length of the boundary of a polygon is called its \_\_\_\_\_
- b) The unit of perimeter is \_\_\_\_\_\_ if the lengths of the sides are given in cm.
- c) The unit of area is \_\_\_\_\_\_ if the sides are given in cm.
- d) Area of a rectangle = \_\_\_\_\_x \_\_\_\_.
- e) Volume of a cuboid = \_\_\_\_\_x \_\_\_\_
- f) When the sides are given in m, unit of volume is \_\_\_\_\_\_.
- g) If perimeter of a square = 4 m., the side = \_\_\_\_\_m.
- h) The number of unit cubes in the cuboid with dimensions 5 m, 2 m, and 1 m a r e
- i) The side of a cube = 8 cm. Its volume = \_\_\_\_\_.

Date \_\_\_\_\_

#### Match and write formulas

Α

1. Perimeter of triangle

2. Perimeter of square

3. Perimeter of triangle

4. Perimeter of Octagon

5. Area of rectangle

6. Area of square

7. Volume of cube

8. Volume of cuboid

9. Side of Square

10. Radius

11. Diameter

Length = Volume
Height x Breadth

Breadth = Volume
Height x Length

Height = Volume
Length x Breadth

В

Perimeter of square ÷ 4

side + side + side

side x side

1xbxh

Sum of eight sides

4 x side

Radius x 2

side x side x side

1xb

2 x (L+B)

Diameter ÷ 2

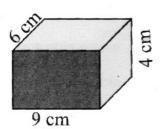
Length of rectangle

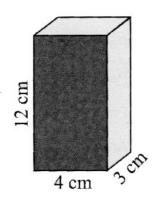
(Perimeter ÷ 2) - breadth

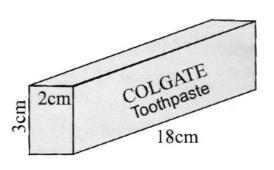
Breadth of rectangle

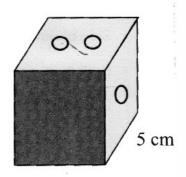
(Perimeter ÷ 2) - Length

(a)

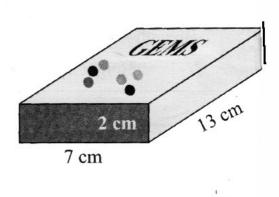












# Ch. 17 Perimeter, Area And Volume

D	ate		
$\boldsymbol{\nu}$	aw		

1. Fill in the blanks :-

i) The space \_\_\_\_\_ by on object is called its volume.

ii) Volume of cube = \_\_\_\_\_ x \_\_\_\_\_x

iii) Volume of cuboid = \_\_\_\_\_ x \_\_\_\_ x \_\_\_\_

iv) Volume is measured in \_\_\_\_\_ units . eg mm3, cm3, m3, km3
Or cu.mm \_\_\_\_\_

v) 1cm = 10 mm

1cm3 = \_\_\_\_\_ mm3

vi) 1dm3 = \_\_\_\_ cm3

vii)  $1 \text{ m} 3 = \underline{\hspace{1cm}} \text{cm} 3$ 

viii) Solid objects like cupboard, box, book, water tank etc. occupy \_\_\_\_\_

ix) When the sides are given in 'm' the unit of volume is \_\_\_\_\_

x) To find the volume of a cuboid, the length of all sides should be in the units.

#### Match

A

3.

В

1. Area

Measurement of something in a particular direction.

2. Volume

Distance around a closed shape.

Amount of surface an object occupies.

4. Dimension

Perimeter

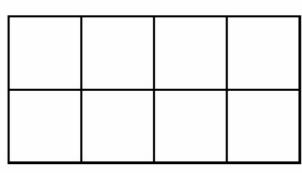
The amount of occupied by an object.

# Ch-17

# Perimeter, Area And Volume

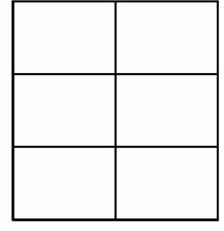
Count the units squares (Sq. Cm) in the given figures and write its area.

(1)



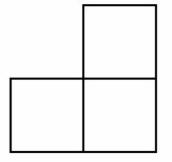
Area = \_\_\_\_\_ Sq.Cm

(2)



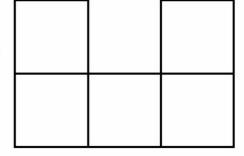
Area = \_\_\_\_\_ Sq.Cm

(3)



Area = \_\_\_\_\_ Sq.Cm

(3)



Area = \_\_\_\_\_ Sq.Cm

Match Column A with B

Α

В

1. Area of postcard

Square millimetres

2. Area of games field

Square centimetres

3. Area of city

Square metres

4. Area of stamp

Square Kilometres

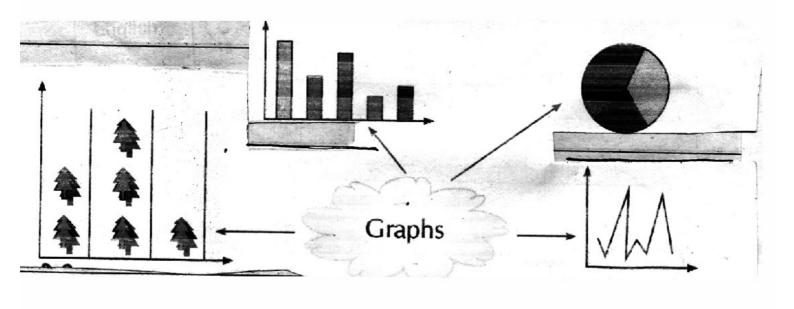
## Ch. 18

## **Pictorial Representation of Data**

## Complete the Following

- Drawing pictures instead of writing numerical information is called \_\_\_\_\_\_

  representation of data.
- 2. Data can be represented in \_\_\_\_\_ graph \_\_\_\_ graph, \_\_\_\_ graph graph.



## Write names of graphs.

- 3. In bar graph data is represented by rectangles called \_\_\_\_\_ of equal \_\_\_\_\_.
- 4. We can choose any \_\_\_\_\_ to make the graph.
- 5. The distance between bars is \_\_\_\_\_ throughout.

T. Sign

Remarks

#### Ch. 14 Pictorial Representation

#### Reading a Pictograph:

1. Look at the pictograph and answer the questions given below.

Day		F	Petrol S	Sold				
Monday								
Tuesday								
Wednesday						A	A	
Thursday					T			
Friday								
Saturday								
Sunday					-			

	One represents 100l of Petrol On which day minimum petrol was sold by the petrol pump?
i)	On which day minimum petrol was sold by the petrol pump?
ii)	What was the total sale of petrol in the whole week?
iii)	How many litres more of petrol was sold on Wednesday than on Sunday?
iv)	How many litres of petrol was sold less on Thursday than on Wednesday?

# Ch. 18

# **Pictorial Representation of Data**

The Following table shows the favourite item of some people. Answer the following questions using the table

Item	Tally Marks	No.
Pastry		15
French Fries		10
Burger		9
Softy Ice Cream		17
Chocolate		19

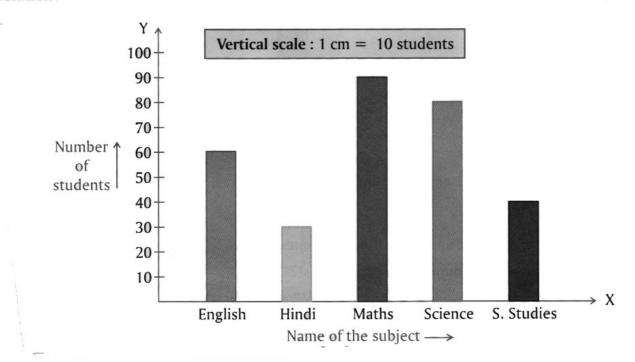
Q1. Ans.	Which of the given items is liked by the maximum number of people?
Q2.	What is the difference between the number of people who like softy ice cream and chocolate?
Ans.	
	Which of the given items is liked by the minimum number of people?
-	How many people were taken into the survey?
Q5. Ans.	Are these food items good for health? Why?

Example: The students of class V voted for their favourite subject as follows:

Subject	English	Hindi	Maths	Science	S. Studies
Number of students	60	30	90	80	40

Represent this data using a bar graph.





QI.	what does the line segment ox represent?
Ans.	
	What does the line segment oy represent
Ans.	
	Which subject is liked the most?
Ans.	
	How many students like English?
Ans.	
	Which subject is liked the least?